

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/000770

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ C11D3/20, 1/75, 1/83, 3/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ C11D1/00-19/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAPLUS (STN), REGISTRY (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	JP 2001-19993 A (KAO CORP.), 23 January, 2001 (23.01.01), Abstract; Claim 1; Par. Nos. [0003], [0013], [0015], [0024] to [0025]; synthesis examples 1 to 2, Par. Nos. [0032] to [0033]; table 2; examples 5 to 6, 9 (cited in the specification of the present application) (Family: none)	1-3
Y	EP 1092761 A2 (KAO CORP.), 18 April, 2001 (18.04.01), Abstract; Claim 1; Par. No. [0019]; example 3 & JP 2001-114652 A & US 6417146 B1 & CN 1291637 A	1-3

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
30 April, 2004 (30.04.04)

Date of mailing of the international search report
01 June, 2004 (01.06.04)

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-226887 A (NOF CORP.), 14 August, 2002 (14.08.02), Abstract; Claim 1; Par. No. [0021] (cited in the specification of the present application) (Family: none)	1-3
Y	JP 2003-13092 A (TOYO RIKEN KABUSHIKI KAISHA), 15 January, 2003 (15.01.03), Abstract; Claims 1 to 4; Par. Nos. [0008], [0013], [0016] to [0017]; examples 1 to 17 (cited in the specification of the present application) (Family: none)	1-3
Y	JP 2001-271094 A (LION CORP.), 02 October, 2001 (02.10.01), Abstract; Claims 1, 3; Par. Nos. [0024] to [0025] (cited in the specification of the present application) (Family: none)	1-3
X, Y	JP 5-148494 A (KAO CORP.), 15 June, 1993 (15.06.93), Abstract; Claims 1 to 2, 5 to 7; page 2, left column, lines 46 to 50; Par. No. [0044]; table 3; article 11 of the invention; Par. Nos. [0047], [0055]; table 8; articles 18 to 19 of the invention; (cited in the description of the present application) & US 5389282 A & EP 510870 A2 & AU 1510292 A & AU 648660 A & DE 69226045 T & ES 2118790 T	1-3
Y	JP 10-204483 A (NEOS CO., LTD.), 04 August, 1998 (04.08.98), Abstract; Claim 1; Par. No. [0014] (Family: none)	1-3
Y	JP 8-508033 A (AKZO NOBEL NV.), 27 August, 1996 (27.08.96), Page 4, lines 2 to 25 & WO 94/21655 A1 & CA 2157285 A & DE 69420132 T & DK 690868 T & EP 690868 A1 & ES 2134937 T & FI 954520 A & NO 953645 A & SE 9300955 A & US 5681949 A	1-3

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-508059 A (AKZO NOBEL NV.), 27 August, 1996 (27.08.96), Page 4, lines 2 to 25. & WO 94/21769 A1 & CA 2157301 A & DE 69419740 T & DK 690905 T & EP 690905 A1 & ES 2134936 T & FI 954521 A & NO 953732 A & SE 9300954 A & US 5644041 A	1-3
A	JP 2001-49291 A (KAO CORP.), 20 February, 2001 (20.02.01), Abstract; Claim 1; Par. Nos. [0019] to [0020], [0028] to [0029]; <preparation examples> Par. Nos. [0036], [0037] to [0039]; table 2; examples 1, 3 (cited in the description of the present application) & WO 01/10990 A1 & EP 1119601 A1 & US 6387867 B1 & CN 1319128 T	1-3
A	JP 8-502540 A (HENKEL KGAA), 19 March, 1996 (19.03.96), Abstract; Claim 1 (cited in the description of the present application) & WO 94/10279 A1 & US 5599787 A & DE 4236506 A & EP 666898 A & ES 2100574 T	1-3
A	JP 8-502310 A (HENKEL KGAA), 12 March, 1996 (12.03.96), Abstract; Claims 1 to 4, 8 (cited in the description of the present application) & WO 94/09102 A1 & US 5578560 A & DE 4234487 A & EP 664830 A1 & ES 2096948 T	1-3
A	JP 2000-26889 A (KAO CORP.), 25 January, 2000 (25.01.00), Abstract; Claims 1 to 2, 4; Par. Nos. [0006], [0012] (cited in the description of the present application) (Family: none)	1-3